

# NEW SPECIES OF RHAMNACEAE FROM YUNNAN, CHINA

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## ABSTRACT

Two new species of Rhamnaceae—*Sageretia gongshanensis* G.S. Fan and L.L. Deng from Gaoligongshan Mountain, Yunnan, China and *Rhamnus daliensis* G.S. Fan & L.L. Deng from Dali City, Yunnan, China are described and illustrated.

## RESUMEN

Se describen e ilustran dos especies nuevas de Rhamnaceae—*Sageretia gongshanensis* G.S. Fan and L.L. Deng de la Montaña Gaoligongshan, Yunnan, China y *Rhamnus daliensis* G.S. Fan & L.L. Deng de Dali, Yunnan, China.

KEY WORDS: *Rhamnus*, *Sageretia*, Rhamnaceae, Yunnan, China, new species

***Sageretia gongshanensis* G.S. Fan & L.L. Deng, sp. nov. (Fig. 1).** TYPE: CHINA. YUNNAN: Gaoligongshan Mountain, 17 Apr 1979, *He Zhi-Ming* 79-0185 (HOLOTYPE: KUN); PARATYPE: CHINA. Yunnan: Baoshan Xian (County), 6 Oct 1988, *Investigative team* 7625 (SWFC).

Species haec *S. laxifloram* Hand.-Mazz. Valde similis praesertim habitu, a qua differt foliis tenuis chartaceis vel submembranaceis, venis lateratibus non impressis supra, elevatis infra, venis principalis infra tomentosis fulvidis vel brunneolis.

Woody vines, 8 m long; young shoots with gray-brown tomentum, old shoot glabrous. Leaves thin papery or submembranous, subopposite or alternate, ovate to elliptical, 4–9 cm  $\times$  2.5–5.0 cm, adaxial side densely tomentose when young, glabrescent and dull in old age except for yellow-brown tomentum near veins, the apex acuminate, the base rounded to subcordate, veins 5–7 pairs, not impressed abaxially, margins serrulate; petioles 5–9 mm long, dense brown tomentose. Flowers unknown. Inflorescence axillary, spicate, densely brown tomentose, 7–10 cm long. Fruit a drupe, obovate, seeds 2–3.

This new species is similar to *Sageretia laxiflorum* Hand.-Mazz., and is easily recognized by its thin papery or submembranous leaves, lateral veins not impressed above and raised beneath, the midrib and lateral veins yellow-brown tomentose beneath.





FIG. 1 *Sageretia gongshanensis* G.S. Fan & L.L. Deng sp. nov. 1. Shoot with leaf, 2. Inflorescence with fruits, 3. Fruit. 4. Seeds, 5. Amplified lower surface of leaf. Drawn by H.P. Wang.





FIG. 2 *Rhamnus daliensis* G.S. Fan & L.L. Deng sp. nov. 1. Shoot with fruits and leave, 2. Fruit, 3. Amplified lower surface of leaf. Drawn by H.P. Wang.



**Rhamnus daliensis** G.S. Fan & L.L. Deng, sp. nov. (**Fig. 2**). TYPE: CHINA.

YUNNAN: Dali City, in evergreen needle-leaf forest, 2000 m alt., 21 Jul 1956, *Hsu Yung-chun* A586 (HOLOTYPE: SWFC).

A *Rhamnus globosus* affinis, sed differt foliis majoribus (4–9 cm  $\times$  2–2.5 cm), ellipticis vel oblongis, raro obovatis, non rotundatis, venis lateralibus 5–7-jugatis.

Shrubs; young shoots grey-brown, opposite or subopposite; young shoots pubescent. Leaves papery, opposite or subopposite, rare alternate, elliptic to oblong, rarely obovate, not rounded, 4–9 cm long, 2–3.5 cm broad, apex obtuse to acute, widely cuneate or slightly rounded, the base slightly oblique, margins finely serrulate, the midrib pubescent or glabrous and light yellow above when dry, densely pubescent and yellow beneath when dry; lateral veins 5–7 pairs, slightly impressed above, raised beneath; stipe 4–8 mm long, densely pubescent; stipules lanceolate, persistent, densely pubescent. Flowers unisexual, clustered in leaf axils. Fruit subglobose, black, about 4 mm diam., persistent calyx at base, stem of fruit 5–8 mm long, glabrous to rarely short pubescent, seeds 2.

This new species has a close affinity to *Rhamnus globosus* Bung., but it is easily recognized by its elliptic to oblong, rarely obovate, non rounded, 4–9 cm long, 2–2.5 cm leaves, and lateral veins of 5–7 pairs.

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